From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

To:

OHNO, Seiji Ohno & Partners Kasumigaseki Building 36F 3-chome Chiyoda-ku, Tokyo 1006036 JAPON



Date of mailing (day/month/year) 03 August 2006 (03.08.2006)	WORPARD W
Applicant's or agent's file reference PGK-9001WO	IMPORTANT NOTIFICATION
International application No. PCT/JP2004/016805	International filing date (day/month/year) 05 November 2004 (05.11.2004)
Applicant JAPANESE FOUNDATION FO	DR CANCER RESEARCH et al

1.	Transmittal	of the	translation	to	the applicant.
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The International Bureau transmits herewith a copy of the English translation of the international preliminary report	rt or
patentability (Chapter I).	

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

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ATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference PGK-9001WO	FOR FURTHER ACTION	See item 4 below		
International application No. PCT/JP2004/016805	International filing date (day/month/year) 05 November 2004 (05.11.2004)	Priority date (day/month/year) 05 November 2003 (05.11.2003)		
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237				
Applicant JAPANESE FOUNDATION FOR CANCER RESEARCH				

1.	This international preliminary representational Searching Authority	port on patentability (Chapter value and value and value 44 bis.1(a).	I) is issued by the International Bureau on behalf of the	
2.	This REPORT consists of a total In the attached sheets, any referen	nce to the written opinion of	the International Searching Authority should be read as a reference	
	to the international preliminary re	eport on patentability (Chapte	er I) instead.	
3.	This report contains indications re	elating to the following items	:	
	Box No. I	Basis of the report		
	Box No. II	Priority		
	Box No. III	Non-establishment of opin applicability	ion with regard to novelty, inventive step and industrial	
	Box No. IV	Lack of unity of invention		
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
	Box No. VI	Certain documents cited		
	Box No. VII	Certain defects in the inter-	national application	
	Box No. VIII	Certain observations on the	international application	
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).			
		,		
			Date of issuance of this report 27 July 2006 (27.07.2006)	
	The International Burea 34, chemin des Color 1211 Geneva 20, Swi	mbettes	Authorized officer Yoshiko Kuwahara	
Facsin	nile No. +41 22 338 82 70		e-mail: pt07@wipo.int	

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHO	RITY		"ANS,
То:			PCT PCT
			RITTEN OPINION OF THE IONAL SEARCHING AUTHORITY
			(PCT Rule 43bis.1)
		Date of mailing (day/month/year)	The second secon
Applicant's or agent's file reference		FOR FURTHER	
PGK-9001WO			See paragraph 2 below
International application No. PCT/JP2004/016805	International filing date ((day/month/year)	Priority date (day/month/year) 05.11.2003
International Patent Classification (IPC) or bo	th national classification an	d IPC	
Applicant			
JAPANESE FOUNDATION	FOR CANCER R	ESEARCH	
This opinion contains indications rel	ating to the following items	3:	
Box No. I Basis of th	e opinion		
Box No. II Priority			
Box No. III Non-estab	lishment of opinion with re	gard to novelty, invent	ive step and industrial applicability
Box No. IV Lack of un Box No. V Reasoned	nity of invention		
Box No. V Reasoned applicabili	statement under Rule 43 <i>bis</i> ty; citations and explanation		novelty, inventive step or industrial tement
Box No. VI Certain do	cuments cited		
Box No. VII Certain de	fects in the international app	plication	
Box No. VIII Certain ob	servations on the internatio	nal application	
2. FURTHER ACTION			
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.			
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.			
For further options, see Form PCT/I	SA/220.		
3. For further details, see notes to Fore	n PCT/ISA/220.	•	
Name and mailing address of the ISA/ID		Authorized office	
Name and mailing address of the ISA/JP		Authorized officer	
Facsimile No.		Telephone No.	

International application No.

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Box	No. I	Basis of this opinion
1.		regard to the language, this opinion has been established on the basis of the international application in the language in which it was, unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under
2.		Rule 12.3 and 23.1(b)). A regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed nation, this opinion has been established on the basis of:
	a.	type of material a sequence listing table(s) related to the sequence listing
	b.	format of material in written format
		in computer readable form
	c.	contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.	\boxtimes	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Add	itional comments:

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Box	No. I	V Lack of unity of invention
1.	\boxtimes	In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has:
		paid additional fees
		paid additional fees under protest
		not paid additional fees
2.		This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.
3.	This	Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is
		complied with
	\boxtimes	not complied with for the following reasons:
		The technical feature common to claims 1-16 relates to a method of predicting risk of onset of granulocytopenia due to paclitaxel therapy by identifying polymorphisms at polymorphism sites in CYP2C8 gene or BUBlb gene, but the fact that sensitivity of a patient to paclitaxel therapy can be predicted by identifying polymorphisms at polymorphism sites in CYP2C8 gene, as reported in "Biol. Pharm. Bull., 2001, Vol. 24, No. 12, pp. 1427-1430" and "Biochemical Pharmacology, 2002, Vol. 64, pp. 1579-1589," and elsewhere was already known, and thus this common technical feature cannot be found to be a special technical feature. Accordingly, there is no technical relationship involving special technical features among the inventions in claims 1-16 and these inventions cannot be found to be so linked as to form a single general inventive concept. Consequently, the inventions described in the claims of the present application include the following six inventions: (1) parts relating to identification of a gene polymorphism at the 11th base in the sequence of CYP2C8 gene specified by SEQ ID NO:1 in claims 1-3, 6, 10-12 and 14-15; (2) parts relating to identification of a gene polymorphism at the 11th base in the sequence of CYP2C8 gene specified by SEQ ID NO:2 in claims 1-3, 6, 10-12 and 14-15; (3) parts relating to identification of a gene polymorphism at the 11th base in the sequence of CYP2C8 gene specified by SEQ ID NO:3 in claims 1-3, 6, 10-12 and 14-15; (4) parts relating to identification of a gene polymorphism at the 11th base in the sequence of CYP2C8 gene specified by SEQ ID NO:3 in claims 1-3, 6, 10-12 and 14-15; (5) parts relating to identification of a gene polymorphism at the 11th base in the sequence of CYP2C8 gene specified by SEQ ID NO:5 in claims 1-3, 6, 10-12 and 14-15; (6) parts relating to identification of a gene polymorphism at the 11th base in the sequence of CYP2CB gene specified by SEQ ID NO:5 in claims 1-3, 6, 10-12 and 14-15; (6) parts relating to identification of a gene polymorphism in
4.	Con	equently, this opinion has been established in respect of the following parts of the international application:
		all parts
	M	identification of a gene polymorphism at the 11th base in the sequence of CYP2C8 the parts relating to gene specified by SEQ ID No:1 in claims 1-3, 6, 10-12 and 14-15

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Box	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement				
	Novelty (N)	Claims	1-3, 6, 10-12, 14-15	YES	
		Claims		NO	
	Inventive step (IS)	Claims	12, 15	YES	
		Claims	1-3, 6, 10-11, 14	NO	
	Industrial applicability (IA)	Claims	1-3, 6, 10-12, 14-15	YES	
		Claims		NO	

2. Citations and explanations:

Document 1: JP 2003-93068 A (Director General of the National Institute of Health Sciences) 02 April 2003

Document 2: Biochem Pharmacol, 2002, Vol. 64, No. 11, pp.1579-1589

Document 3: Biol Pharm Bull, 2001, Vol.24, No.12, pp.1427-1430

Document 4: JSNP DATABASE (http://snp.ims.u-tokyo.ac.jp/)

JSNP ID: IMS-JST111898 (11 October 2001)

Claims 1-3, 6, 10-11, and 14

The inventions in claims 1-3, 6, 10-11 and 14 do not appear to involve an inventive step over documents 1-4 cited in the ISR.

Documents 1-3 are found to describe the ability to predict patient sensitivity to paclitaxel therapy by identifying polymorphisms at polymorphism sites in CYP2C8 gene.

In addition, document 4 describes SNP present in SYP2C8 gene region.

As such, the use of SNP described in document 4 as a polymorphism for investigation in methods of predicting patient sensitivity in paclitaxel therapy described in documents 1-3 is not found to pose any exceptional difficulty.

In addition, granulocytopenia is well known to experts in the relevant technical field as a representative side effect of paclitaxel, and thus use of these methods in predicting risk of onset of granulocytopenia is not found to pose any exceptional difficulty.

The adoption of configurations of the inventions described in claims 1-3, 6, 10-11, and 14 is not considered to yield exceptionally striking results.

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Sup	plem	ental	Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: $Box\ V$

Claims 12 and 15

The inventions described in claims 12 and 15 appear to possess novelty and involve an inventive step over documents 1-4 cited in the ISR.

The relationship between the BUB1b gene and risk of onset of granulocytopenia due to paclitaxel therapy is not described in any of these documents, nor is it obvious to an expert in the relevant technical field.